



RECEIVED

SEP 23 2002

TECH CENTER 1600/2900

SEQUENCE LISTING

<110> DANIELL, HENRY

<120> GENETIC ENGINEERING OF COTTON TO INCREASE FIBER
STRENGTH, WATER ABSORPTION AND DYE BINDING

<130> 1483-R-00

<140> 09/251,638

<141> 1999-02-17

<150> 60/074,997

<151> 1998-02-17

<160> 25

<170> PatentIn Ver. 2.1

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 1

Val Pro Gly Val Gly
1 5

<210> 2

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 2

Gly Val Gly Val Pro
1 5

<210> 3

<211> 605

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 3

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
1 5 10 15

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val

	20	25	30
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly			
35	40	45	
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val			
50	55	60	
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro			
65	70	75	80
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly			
85	90	95	
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val			
100	105	110	
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly			
115	120	125	
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val			
130	135	140	
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro			
145	150	155	160
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly			
165	170	175	
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val			
180	185	190	
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly			
195	200	205	
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val			
210	215	220	
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro			
225	230	235	240
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly			
245	250	255	
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val			
260	265	270	
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly			
275	280	285	
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val			
290	295	300	
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro			
305	310	315	320
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly			
325	330	335	
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val			
340	345	350	

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
355 360 365

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
370 375 380

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
385 390 395 400

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
405 410 415

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
420 425 430

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
450 455 460

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
465 470 475 480

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
485 490 495

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
500 505 510

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
515 520 525

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
530 535 540

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
595 600 605

<210> 4
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 4
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly

1 5 10 15
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95
Val Gly Val Pro
100

<210> 5
<211> 605
<212> PRT
<213> Artificial Sequence

<220>
<221> repeat_unit
<222> 1..605
<223> Repeats at least once

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 5
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
1 5 10 15
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
20 25 30
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
35 40 45
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
50 55 60
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
65 70 75 80
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
85 90 95
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
100 105 110
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
115 120 125

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
130 135 140

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
145 150 155 160

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
165 170 175

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
180 185 190

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
195 200 205

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
210 215 220

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
225 230 235 240

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
245 250 255

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
260 265 270

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
275 280 285

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
290 295 300

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
305 310 315 320

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
325 330 335

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
340 345 350

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
355 360 365

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
370 375 380

Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
385 390 395 400

Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
405 410 415

Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
420 425 430

Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
435 440 445

Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val

450 455 460
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
465 470 475 480
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
485 490 495
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
500 505 510
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly
515 520 525
Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val
530 535 540
Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
545 550 555 560
Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly
565 570 575
Val Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro Gly Val
580 585 590
Gly Val Pro Gly Val Gly Val Pro Gly Val Gly Val Pro
595 600 605